

KARAPATA, A.P.; SHUMAKOV, A.G. (Krivoy Rog)

Case of toxic pulmonary edema following the administration of  
bee venom in chronic nephritis. Klin.med. 39 no.1:142-144 Ja  
'61. (MIRA 14:1)

*Krivoy Rog Oblast Specialized Clinic*  
1. Iz Krivorozhskoy oblastnoy spetsializirovannoy (klinicheskoy  
bol'nitsy) (glavnyy vrach A.G. Shumakov).  
(PULMONARY EDEMA) (VENOM) (KIDNEYS—DISEASES)

(lit:  
clinical  
hospital)

*unh*

SHUMILKOV, A.M., kand. med. nauk

1-ray diagnosis of pneumoconiosis. Vest. rent. i rad. 40  
no.4:52-56 J1-Ag '65. (MIRA 18:9)

1. Krivorozhskiy institut gigiyeny truda i professional'nykh  
zabolevaniy.

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
<div style="display: flex; justify-content: space-between;"> <span>CA</span> <span>16</span> </div> <p>Production of strong wines without adding alcohol. A. M. Shumakov. <i>Vinodelie i Vinogradarstvo S.S.S.R.</i> 6, No. 11/12, 12-16(1946).—The factors affecting the fermentation of sugar to alc. are discussed. Expts. were carried out on the effect of added sugar on the quantity of alc. produced. Sugar was added in the form of beet sugar, coned. must, and must high in sugar. The latter is the preferred form. The addns. were made entirely at the start or partly as the fermentation progressed. By such methods an alc. content of 10.3 vol. % was obtained in the product. It is best to add the sugar or must when the sugar content of the fermenting wine reaches 7%. If fermentation is sluggish the cask should be rocked occasionally.</p> <p style="text-align: right;">M. Hosh</p>																																																			
<div style="display: flex; justify-content: space-between;"> <span>COMMON ELEMENTS</span> <span>COMMON VARIABLES INDEX</span> </div>																																																			
<div style="display: flex; justify-content: space-between;"> <span>MATERIALS INDEX</span> <span>ASACSLA METALLURGICAL LITERATURE CLASSIFICATION</span> </div>																																																			
<div style="display: flex; justify-content: space-between;"> <span>1ST ORD. 1ST</span> <span>1ST ORD. 2ND</span> <span>1ST ORD. 3RD</span> <span>1ST ORD. 4TH</span> </div>																																																			

CA

16

Yeast after vigorous fermentation. A. M. Shumakov.  
*Vinodelie i Vinogradarstvo S.S.S.R.* 8: No. 10, 70 (1948).  
—Study to det. the cause of differences in viability behavior of yeast races after vigorous fermentation (dry wine) showed that the high sugar content of the juice fermented is a determining factor, as well as temp. and acidity of the wine resulting. Cells die at the higher sugar levels rather than autolyse. Glycogen and other products of cell metabolism accumulate and exert a toxic action. Rate of recovery of yeast cells increases directly with aging of wines in the interval 0.5–1.5 years. H. O.

SHUMAKOV, A. V.

Mbr., Ukr. Sci. Exptl. Inst. Viticulture im. Tairov, Odessa, -1948-. "Yeast Microflora of the Grape Berry," Mikrobiol., 17, No. 6, 1948.

Shumakov, A.M.

Sulfatization of wine in small doses. A. M. Shumakov. *Vinodelie i Vinogradarstvo S.S.S.R.* 10, No. 1, 44(1950); cf. preceding abstr.—The amt. of  $\text{SO}_2$  added to grape must before the alc. fermentation depends on the acidity, temp., and the amt. of the specific yeasts present in the must. To obtain good products 50–100 mg.  $\text{SO}_2$ /l. of must, added before the fermentation, followed by supplementing with  $\text{SO}_2$  during the fermentation, are required. M. A. Gerasimov. *Ibid.* 44–5.—When the main purpose is a maximal depression of the growth of wild microorganisms in the must before the yeast addn. a large dose of  $\text{SO}_2$  added all at once before the fermentation, is recommended. When both depression of the microorganisms and acidity of the product are considered  $\text{SO}_2$  is best given in small doses. As a result of long-time experience the following doses of  $\text{SO}_2$  added to must at different temps. gave best-quality products: at 15° 80 (for red varieties) and 100 (for white varieties), at 18–20° 100 and 130, at 21–25° 150 and 180, and at temps. higher than 26° 180 and 230 mg.  $\text{SO}_2$ /l., resp. After the fermentation wines treated with 230 mg.  $\text{SO}_2$ /l. contained not more than 10–13 mg. of free  $\text{SO}_2$ /l. E. Wierbicki

SHUMAKOV, A. M.

Dissertation: "The Uses of Microorganisms (Microflora) in Viniculture." Dr Tech  
Sci, Georgian Inst of Agriculture, Odessa 1953.

W-30928

SO: Referativnyy Zhurnal, No. 5, Dec 1953, Moscow, AN USSR (~~XXXXXXXX~~)

SIURAKOV, A. I.

Dissertation: "Changes of Microflora in Wine-Making Processes." Dr Tech Sci, Georgian  
Order of Labor Red Banner Agricultural Inst, 25 May 54, Larya Vostoka, Tbilisi, 15 May 54.

SC: SUM 224, 26 Nov 1954



SHUMAKOV, A. M.

Accurate use of physical methods of analysis. I. A. M.  
Shumakov (Agr. Inst., Odessa). *Vinodelia : Vinogradur-*  
sivo S.S.S.R., 15, No. 8, 60-2(1958).—A brief discussion is  
given of the detn. of the sp. gr. of wine materials during the  
aging period as a control of the formation of sugars. The  
methods used in the plants are described. The use of the  
pycnometer and the conversion of  $d_{4}^{20}$  to  $d_{20}^{20}$  is discussed  
briefly. Shirley B. Radding.

med

HUMAKOV, B. A., Skripchinskaya, L.V.

rice

transition to a new irrigation system for water cultivation of rice.  
id. i mel. 4 no. 4, 1952.

Monthly List of Russian Accessions, Library of Congress,  
July, 1952. UNCLASSIFIED.

temporary cylinders. For the sector in the ilmenium of the  
river valley, it is necessary that the cylinders be installed  
not across the ilmenium, but concentrically; the irrigation  
norm is 10 000 cubic meters per hectare.

Card : 1/1

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550210012-4"

1A

COUNTRY :  
CATEGORY : CULTIVATED PLANTS.

ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO. 4, 1959;

No. 15547

AUTHOR :  
INSE :  
TITL :

ORIG. PUB. :

APPL. COM : size of the watering standards have an effect  
on the magnitude of the water consumption  
factor. More frequent waterings with lesser  
amounts give a lesser value of water consumption  
factor.

--Yu.L.Guzhev

CARD:

2/2

8

GOROKHOVA, M.V.; SHUMAKOV, B.A.

Distillation of the Veselyy Reservoir. Hidrokhim. mat. 26:116-143  
'57. (MLRA 10:8)

1. Yuzhnyy nauchno-issledovatel'skiy institut gidrotekhniki i  
melioratsii, Novocherkassk.  
(Veselyy (Rostov Province)--Reservoirs) (Water--Composition)

SHUMAKOV, B.A.

Measures for the development of water resources in the Northern  
Caucasus. Trudy Okean. kom. 5:353-357 '59. (MIRA 13:6)  
(Caucasus, Northern--Water resources development)

SHUMAKOV, B.A., prof.; TULYAKOVA, Z.F., kand.sel'skokhoz.nauk

Growing rice in the U.S.S.R. Zemledelie 8 no.11:35-38 N '60.  
(MIRA 13:10)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh  
nauk im. V.I.Lenina (for Shumakov).  
(Rice)

SHUMAKOV, B.A., prof.

Multistage basin system of irrigation with water delivery from a large reservoir. Gidr.i mel. 12 no.3:38-43 Mr '60.

(MIRA 13:6)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. Lenina.

(Irrigation)

SHUMAKOV, B.A., zasl. deyatel' nauki i tekhniki RSFSR, prof.;  
ZELENETSKAYA, L.V., red.; SAYTANIDI, L.D., tekhn. red.

[Irrigation farming] Oroshaemoe zemledelie. Moskva, Izd-vo  
M-va sel'.khoz.RSFSR, 1962. 191 p. (MIRA 15:10)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokho-  
zyaystvennykh nauk im. V.I.Lenina (for Shumakov).  
(Irrigation farming)



SHUMAKOV, Boris Apollonovich, prof., zasl. deyatel' nauki i tekhn.  
niki RSFSR; SHUMAKOV, Boris Borisovich, kand. tekhn.  
nauk; ADEL'FINSKAYA, Ye.N., red.; SAYTANIDI, L.D.,  
tekhn. red.

[Basin snow-water irrigation] Limannoe oroshenie. Moskva,  
Izd-vo M-va sel'khoz.RSFSR, 1963. 131 p. (MIRA 16:10)  
(Irrigation)

SHUMAKOV, B.A., akademik, red.; TOLSTOV, M.A., red.

[Work mechanization in irrigation farming] Mekhanizatsiia rabot v oroshaemom zemledelii. Rostov-na-Donu, Rostovskoe knizhnoe izd-vo, 1965. 152 p.

(MIRA 19:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Shumakov).

SHUMAKOV, Boris Apollonovich, prof., zasl. deyatel' nauki i tekhniki RSFSR; SHUMAKOV, Boris Borisovich, kand. tekhn. nauk; ADEL'FINSKAYA, Ye.N., red.; SAYTANIDI, L.D., tekhn. red.

[Basin snow-water irrigation] Limannoe oroshenie. Moskva, Izd-vo M-va sel'khoz.RSFSR, 1963. 131 p. (MIRA 16:10)  
(Irrigation)

ADAMOV, N.T.; NIKISHIN, K.Ye., kand. med. nauk.; SHUMAKOV, F.K.

Diagnostic value of spot roentgenography in pulmonary tuberculosis.  
Vest. rent. 1 rad. 33 no.6:19-22 N-O '58. (MIRA 12:1)

(TUBERCULOSIS, PULMONARY, diag.  
aimed x-ray (Rus))

SHURIAKOV, I.A., Cand Med Sci — (diss) "Effect of certain  
neurotropic substances <sup>upon</sup> <sup>outbreak</sup> on the ~~genesis~~ and course of  
experimental nephritis." Kursk, 1959, 13 pp (Second Mos  
State Med Inst im N.I. Pirogov) 250 copies (KL, 33-59, 122)

- 79 -

BAKHMETOVA, T.Ye.; DOVGER, F.F.[deceased]; SMIRNOV, P.A.; PROKHOROV,  
A.N.; SHUMAKOV, I.A.; MIROSHINA, Yu.N.; SHAGALOV, Ye.S.,  
red.;

[Album of sketches of stock equipment for the erection of  
structural elements] Al'bom chertezhei inventarnykh priso-  
soblenii dlia vozvedeniia stroitel'nykh konstruktsii. Mo-  
skva. Pt.1.[Cradles, stagings, ladders, guard rails. Ap-  
proved by a resolution of the technical administration  
No.163 of Dec. 30, 1959] Liul'ki, ploshchadki, lestnitsy,  
ograzhdeniia. Uтверzhden resheniem tekhnicheskogo uprav-  
leniia No.163 ot 30 dekabria 1959 g. 1962. 141 p.

(MIRA 15:10)

1. Vsesoyuznyy institut po proyektirovaniyu organizatsii  
energeticheskogo stroitel'stva "ORGENERGOSTROI." Moskovskiy  
filial.

(Building)

1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX																	
SHUMAKOV L. G.		Operation of the blast furnace on one hundred per cent agglomerate. S. L. Koptevskii, L. G. Shumakov, K. T. Zhdanovskii, A. G. Kononenko and A. V. Mezhalkin. <i>Teoriya Prakt. Met.</i> 11, No. 7, 10-13 (1939).—Agglomerate contg. FeO 19-23% exhibited max. mech. strength and greatest uniformity. A content of pieces coarser than 5 mm. in the agglomerate has no direct effect on the capacity of the blast furnace. The agglomerate should be finer than 25 mm. The 5-25-mm. fraction should be utilized without a preliminary agglomeration. The change in the air blast must be not more than 50 cu. m./min. at one time. The temp. of the blast must be raised not more than by 15° every 15 min. The temp. of the blast can be raised to 750°. The consumption of coke decreased from 939 kg./ton of pig Fe with 83% agglomerate in the charge to 850 kg./ton of pig Fe with 100% agglomerate. The capacity under the same conditions increased from 850 to 1050 tons/day. The loss of Fe in the flue gases decreased from 400 to 160 kg./tons of pig Fe. A good heat balance was obtained with a ratio coke:pig Fe = 0.8 l at 800°																	
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ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
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ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			

1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX		3RD AND 4TH ORDERS	
SHUMAKOV L. G.				9	
<p>Production of ferromanganese from northern ores. L. G. Shumakov. <i>Dokl. Akad. Nauk SSSR</i>, No. 11-12, 51-2 (1943). The composition of the ore was Mn 28.6, SiO<sub>2</sub> 26.6, Al<sub>2</sub>O<sub>3</sub> 5.5, CaO 0.8, P 0.077, S trace, Fe 3.0%, H<sub>2</sub>O not detd. The Mn content varied from 21.2 to 32.0%. Up to 50% of the ore was below 1 mm. in size. The ore was used as delivered from the mine. Best results were obtained by running a basic slag with not less than 30% of CaO. The melt contained Mn 71, Si 1.73 and P 0.38%. The slag contained SiO<sub>2</sub> 33.1, CaO 43.0 and Mn 19.8%. Raw materials used were coke 4550, wet ore 4050 and limestone 2250 kg. per ton. Of the Mn, 65.0% appeared in the melt, 19.4% in the slag and 15.6% was lost. A more acid slag gave very poor results. Details of other trials are given.</p> <p>M. Rosch</p>					
<p>ASB-11A METALLURGICAL LITERATURE CLASSIFICATION</p>					



SHUMAKOV, L. G.

Kolobanov, P. N. and Shumakov, L. G. "Heat and material  
balance of a gas turbine engine," Trudy Stalinskogo  
vys. shk. - HIGH SCHOOL, No. 1 1949, p. 5-11, - Bibliog: 4 refs.

XX: - 1949, 1. Dec. 1949, 3, (Latvian 'Zhurnal Inzh. Staty', No. 26, 1949)

13.3200

77602  
SOV/133-60-2-2/25

AUTHORS: Shumakov, L. G., and Chusovitin, G. I. (Engineers)

TITLE: Experimental Smelting of Ferromanganese in a Large Blast Furnace

PERIODICAL: Stal', 1960, Nr 2, pp 104-107 (USSR)

ABSTRACT: The experimental smelting of ferromanganese has shown that application of acid slag, high-temperature blast and high pressure of top gas permitted the obtaining of high technical and economical performance figures. The smelting of Chiabura manganese ore was done in a blast furnace with the useful volume of 1,000 m<sup>3</sup>. The ore has the following composition

a) Chemical:

Mn	MnO <sub>2</sub>	MnO	P	S	Fe
44.25	45.8	19.8	0.18	0.32	3.25
SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MeO	H <sub>2</sub> O	
12.05	3.32	2.67	0.87	5.74	

b) Granulometric

Fraction, mm	0-5	5-10	10-25	>25
Content, %	46.7	26.3	17.1	9.9

Card 1/4

Experimental Smelting of Ferromanganese  
in a Large Blast Furnace

77602

SOV/133-60-2-2/25

Limestone with 54.5-55.0% CaO (free from sulfur and phosphorus) was added to the charge. Smelting was conducted on coke with 12.8% ash content and 0.54% sulfur. The established method of steady and smooth operation of the furnace is characterized by the following performance figures: (1) The average daily production of cast iron, ton: liquid, 465; pig, 448. (2) Consumption kg/ton of liquid cast iron: dry coke, 1462; ore, 2281; limestone, 528; metal additions, 248. (3) Blast parameters: blast consumption ( $M^3/min$ ), 1524; pressure (atm/gage), 1.42; temperature (C), 874; moisture (gr/ $m^3$ ), 4.5. (4) Parameters of blast furnace gas: pressure (atm/gage), 0.57; temperature (C) 347; gas content, (%),  $CO_2$  - 6, 9, CO - 32, 9. (5) amount of slag Kg/ton of cast iron, 953. (6) Amount of dust Kg/ton of cast iron, 108. Composition of melt products, %: (a) ferromanganese: C, 7.05; Mn, 76.1; Si, 0.93; S, 0.013; P, 0.38; (6) slag:  $SiO_2$ , 32.5;  $Al_2O_3$ , 12.3; CaO, 34.4; MgO, 2.3; MnO, 17.2. Basicity of acid slag

Card 2/4

Experimental Smelting of Ferromanganese  
in a Large Blast Furnace

77602  
SOV/133-60-2-2/25

is 0.98-1.08% and manganous oxide content 15.0-21.5%. The relationship between MnO contents in slag and its basicity ( $\text{CaO}:\text{SiO}_2$ ) is shown in Fig. 3. The comparison of different heat balances shows that the general heat consumption when working on acid slags is at a minimum, and heat utilization efficiency rather high. As a result of smelting ferromanganese with acid slags (the sum of  $\text{SiO}_2 + \text{Al}_2\text{O}_3$  is about 45%). The total loss of manganese is decreased and the degree of its utilization is increased in comparison to smelting with basic slags. The whole process is more economical in spite of the fact that oxygen blast was not used. There are 3 tables; 3 figures; and 4 Soviet references.

Card 3/4

SHUMAKOV, L.G., inzh.; VARNAVSKIY, I.N., inzh.; IZOTOV, N.P., inzh.;  
VOLKOV, S.S., inzh.

Conversion of low-carbon, high-temperature molten metal in  
open hearth furnaces. Stal' 22 no.1:37 Ja '62. (MIRA 14:12)

1. Orsko-Khalilovskiy metallurgicheskiy kombinat.  
(Steel--Metallurgy)

KOLESANOV, F.F.; SHUMAKOV, N.S.; FEDORENKO, N.V.; SHUMAKOV, L.G.;  
GIMMEL'FARB, A.I.

Dressing of Akkermanovka ores and sintering of the  
concentrates produced. [Sbor. trud.] Nauch.-issl.  
inst.met. no.4:44-53 '61. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut metallurgii  
(for Kolesanov, Shumakov, Fedorenko). 2. Orsko-Khalilovskiy  
metallurgicheskiy kombinat (for Shumakov, Gimmel'farb).  
(Akkermanovka region—Iron ores)  
(Ore dressing) (Sintering)

KOLESANOV, F.F.; SHUMAKOV, N.S.; FEDORENKO, N.V.; SHUMAKOV, L.G.;  
GIMMEL'FARB, A.I.

Dressing of Akkermanovka ores and sintering of the  
concentrates produced. [Sbor. trud.] Nauch.-issl.  
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metallurgicheskiy kombinat (for Shumakov, Gimmel'farb).

(Akkermanovka region—Iron ores)  
(Ore dressing) (Sintering)

AUTHOR KUDRYAVTSEV, YE.V., SHUMAKOV, N.V. PA - 2814  
 TITLE Mean Temperature Method for Solid Body Heating Investigation.  
 (Metod sredney temperatury dlya izucheniya protsessa nagreva  
 tverdogo tela - Russian)  
 PERIODICAL Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 4, pp 856-867, (U.S.S.R.)  
 Received 5/1957 Reviewed 6/1957  
 ABSTRACT A method for the investigation of a non-steady heat exchange of solid bodies is described. A temperature point is shown to exist which is very close to the average slab temperature during heating. The problem of the heating of a flat slab by a heat flow, which changes according to time and in accordance with a linear law, is solved. Here the initial temperature of the disk is parabolically distributed. It is shown that with the initial temperature of the slab being homogeneous the temperature change of the plane with the coordinate  $x^* = \frac{\sqrt{3}}{3} R$  corresponds to the change of the average slab temperature. 3  
 $x^*$  is the coordinate of the average-temperature point. The temperature value at the point  $x^*$  is shown to be equal to the average slab temperature in four cases. It is shown that the method of average temperature can be used for discovering the boundary function. In comparison with the method of consecutive intervals it is stated to be possible immediately to determine at any (but known) point of the disk the temperature distribution according to thickness by means of this method and immediately to pass on to the boundary function. The method of aver-

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Mean Temperature Method for Solid Body  
Heating Investigation.

PA - 2814

age temperature, however, demands a solution of the equations for the heat conductivity in the case of determined boundary conditions for the same operations. It is best to combine these two methods. The values of the boundary function found by means of the first method agree well with these which were found by the second method.  
(With 4 illustrations and 2 citations from Slav publications)

ASSOCIATION	ENIN of the Academy of Science of the USSR (ENIN AN SSSR)
PRESENTED BY	
SUBMITTED	31. 1. 1956
AVAILABLE	Library of Congress
Card 2/2	

PA - 2813

AUTHOR  
TITLE

SHUMAKOV, N.V.,

Method of Experimental Investigation of Solid Body Heating.  
(Metod eksperimental'nogo izucheniya protsessa nagreva tverdogo tela - Russian)

PERIODICAL

Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 4, pp 844-855, (U.S.S.R.)  
Received 5/1957  
Reviewed 6/1957

ABSTRACT

The theory of the method of consecutive intervals is given. This method satisfies the following demands. It can be used in the case of great thermal stresses, of unknown and unchangeable boundary conditions, and by means of it the quantities which characterize the heating of the body can be locally determined. The problem of the heating of an infinite flat-parallel slab was solved in consecutive intervals. First it is shown how to select the boundary conditions. The method of consecutive intervals itself consists in dividing the total heating process into periods, on which occasion the boundary function is assumed to be constant. The calculation and afterwards also the experimental examination of the method are given. The solution obtained gives the relation between the temperature field of the slab during its heating (cooling) with variable boundary conditions. On this basis the method mentioned was elaborated and experimentally confirmed. Basic problems were investigated which refer to the construction of a q-calorimeter (apparatus for the investigation of the local heat exchange of solid bodies with their surroundings). The bases established for the con-

Card 1/2

39518

S/649/61/000/139/010/018

1028/1228

24.5200

AUTHORS: Kudryavtsev, E. V. and Shumakov, N. V.

TITLE: Similitude of the non-stationary heat exchange of solid bodies under identical conditions

SOURCE: Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 139. 1961. Teoriya podobiya i yeye primeneniye v teplotekhnike; trudy pervoi mezhvuzovskoy konferentsii, 122-130

TEXT: Heat exchange of solid bodies cannot be solved by the theory of similitude, since the boundary conditions of the real process cannot be expressed analytically a priori. An investigation was conducted on cylinders having one heat-exchanging and the remaining thermally insulated surfaces. The experiments establish an equation of non-stationary heat exchange:

$$q(\tau_h) = \text{idem} \quad \text{for} \quad \tau_h/c\rho R = \text{idem} \quad (1)$$

where  $q(\tau_h)$  = the value of the heat flux entering the body at the moment  $\tau_h$ ,  $c\rho$  = the volume heat capacity of the body substance,  $R$  = the determining dimension, and  $\tau_h$  is called the "time of similar heat content". The following consequences are drawn from this formula for different bodies heated under identical con-

Card 1/2

Similitude of the non-stationary...

S/649/61/000/139/010/018  
I028/I228

ditions: a) the variations of the mean integral temperatures of the bodies, taken at times of similar heat content, are equal; b) the variations of the surface temperatures of the bodies, taken at times of similar heat content, are equal; c) the ratio of the heat contents of two bodies, taken at times of similar heat content, is equal to the ratio  $(cpR)_A/(cpR)_B$ ; d) at the same temperature head, different heat fluxes enter the different bodies; e) the dependence of the heat flux on the temperature head is the same for different bodies, provided their thermal resistances  $R/\gamma$  are equal. There are 4 figures.

ASSOCIATION: Energeticheskii institut AN SSSR (Institute of Energetics, AS USSR)

Card 2/2

*SHUMAKOV, N. V.*

PHASE I BOOK EXPLOITATION

SOV/5909

Kudryavtsev, Yevgeniy Vasil'yevich, Konstantin Nikolayevich Chakalev, and Nikolay Vasil'yevich Shumakov'

Nestatsionarnyy teploobmen (Nonstationary Heat Exchange) Moscow, Izd-vo AN SSSR, 1961. 156 p. Errata printed on the inside of back cover. 2500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Energeticheskiy institut im. G. M. Krzhizhanovskogo.

Resp. Ed.: A. S. Predvoditelev, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: G. B. Gorshkov; Tech. Ed.: L. V. Yepifanova.

PURPOSE: This book is intended for specialists interested in heat-exchange problems.

COVERAGE: Methods of investigating the boundary conditions of heating (cooling) in solid bodies are discussed. These methods are free from the restrictions of the regular-regime method and the exponential methods, and are said to have

Card 1/4

SOV/5909

# Nonstationary Heat Exchange

been developed by the authors. Particular attention is given to measuring methods and to the application of established formulas for computing boundary conditions of nonstationary heat exchange. Stationary and nonstationary heat regimes are also discussed. The authors thank Engineers L. D. Kalinnikov and O. I. Luneva. There are 37 references: 31 Soviet, 4 German, 1 English, and 1 Italian.

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1. Regular-regime method	8
2. Exponential method	18
3. Measuring the heat flow in walls by the "two-point" method	41

Card 2/4

KUDRYAVTSEV, Ye.V.; SHUMAKOV, N.V.

Similitude of nonstationary heat exchange in solid bodies under identical conditions. Trudy MIIT no.139:122-130 '61. (MIRA 16:4)

1. Energeticheskiy institut AN SSSR.  
(Heat—Transmission)

(Thermodynamics)

S/170/61/004/001/010/02C  
B019/B056

AUTHORS: Kudryavtsev, Ye. V., Shumakov, N. V.  
TITLE: Effect of Size and Material of a Solid on Nonsteady Heat Exchange  
PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1961, Vol. 4, No. 1, pp. 63-70

TEXT: The effect of the size of a body upon its nonsteady heat exchange was studied by heating it in a water thermostat. The effect produced by the material of the body was studied in a potential flow, and likewise cooling was studied in an ice tank. The dependence of the heat flow on time and on the temperature drop, as well as the dependence of the heat exchange coefficient on time and on the temperature gradient was determined for various test pieces. As test pieces, silver pieces with 200, 150, 100, 75, 50, 25, and 12.5 mm radius, cobalt-, copper-, zinc-, and aluminum-pieces having a radius of 50 mm were used. A relation was introduced between heat flowing to the body and the duration of the process and the characteristic of the body concerned. It is shown that this

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Effect of Size and Material of a Solid on  
Nonsteady Heat Exchange

S/170/61/004/001/010/020  
B019/B056

equation is general enough for explaining a nonsteady heat exchange of various bodies with conditions otherwise being equal. This relation is derived on the assumption that to various bodies heated under equal conditions, the same quantities of heat are conveyed within certain periods  $\tau$ , where the  $\tau$  are proportional to their thermal capacity. Therefore,  $q\tau = \text{idem}$  holds, with  $\tau/cR = \text{idem}$ . The physical nature of this relation is studied. It is found that the nonsteady nature of the process on both sides of that plane through which the heat exchange takes place, must be taken into account. A theoretical calculation may under certain circumstances only be carried out by means of computers. V. N. Sokolov is mentioned. There are 4 figures, 1 table, and 3 Soviet references.

ASSOCIATION: Energeticheskii institut AN SSSR im. G. M. Krzhizhanovskogo, g. Moskva (Institute of Power Engineering of the AS USSR imeni G. M. Krzhizhanovskiy, Moscow)

SUBMITTED: July 21, 1960

Card 2/2

SHUMAKOV, R.

How we succeeded to reduce the cost of taxicab transportations.  
Avt.transp. 42 no. 4:39-40 Ap '64. (MIRA 17:5)

1. Starshiy ekonomist Kalininskogo avtokhozyaystva legkovykh  
avtomobiley.

SHUMAKOV, V.

Organize the selling of surplus products through the administration of collective farms. Sov.torg. no.1:47-48 Ja '58. (MIRA 10:12)

1.Starshiy inspektor otdela organizatsii trgovli Chelyabinskogo Oblastnogo upravleniya trgovli.  
(Farm produce--Marketing)

ZHUDOV, V., inzh.; SHUMAKOV, V., inzh.; LARIONOV, M., inzh.; GAVRILENKO, V. [Havrylenko, V.], inzh.

Thermal treatment of large heavy concrete products by heating  
without steam. Bud.mat.i konstr. 4 no.4:1-4 J1-Ag '62.  
(MIRA 15:8)

(Precast concrete)

SHUMAKOV, V.A.

What to do in case of the damage of low-voltage wires on a VL8 electric locomotive. Elek. i tepl.tiaga no.8:34-35 Ag '63.

(MIRA 16:9)

1. Obshchestvennyy mashinist-instruktor depo Kurgan Yuzhno-Ural'skoy dorogi.

(Electric locomotives--Maintenance and repair)

SHUMAKOV, V.F., inzhener; PRASOV, M.M., inzhener; ABAYEV, V.M., inzhener po  
trudu; VOL'PITER, E.V., inzhener-teplotekhnik; MALAKHOVSKIY, L.A.; MIKHNO,  
B.P.

Mechanizing slag removal from slag pockets in open-hearth furnaces. Metal-  
lurg no.9:14-19 S '56. (MIRA 9:10)

1. Starshiy inzhener tekhnicheskogo otdela Metallurgicheskogo zavoda imeni  
Voroshilova (for Malakhovskiy). 2. Starshiy konstruktor proyektneho otdela  
Metallurgicheskogo zavoda imeni Voroshilova (for Mikhno).  
(Metallurgical plants--Equipment and supplies)

ANASHKIN, A.T.; GORBACHEV, Ye.A.; RUMYANTSEV, Ye.K.; STROTS, V.I.;  
SHUMAKOV, V.G.; PESTRYAKOV, A.I., red.; GOR'KOVA, Z.D.,  
tekhn.red.

[Disassembling and assembling the SK-3 combine] Razborka i  
sborka kombaina SK-3. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1961.  
230 p. (MIRA 14:6)  
(Combines (Agricultural machinery))

IZAKSON, Kh.I.; SHUMAKOV, V.G.; SHAPIRO, A.V., inzhener-ispytatel'

Main trend of the chief designer. Nauka i zhizn' 29 no.11:  
20-26 N '62. (MIRA 16:1)

1. Glavnyy konstruktor Gosudarstvennogo spetsial'nogo konstruktorskogo byuro po samokhodnym kombaynam i samokhodnym shassi (for Izakson).
2. Nachal'nik laboratorii Gosudarstvennogo spetsial'nogo konstruktorskogo byuro po samokhodnym kombaynam i samokhodnym shassi (for Shumakov).

(Agricultural machinery--Design)



SHUMAKOV, V.G., inzh.

Work conditions on the SK-3 and SK-4 self-propelled combines.

Trakt. i sel'khoz mash. 33 no.9:24-25 S '63. (MIRA 16:10)

(Combines (Agricultural machinery) — Safety measures)

SHUMAKOV, V.I., student

The use of 2 per cent novocaine solution in vascular surgery.

Khirurgiya, no.9:64-67 S '55.

(MLRA 9:2)

1. Iz kafedry topograficheskoy anatomii i operativnoy khirurgii  
(zav. prof. V.V. Kovanov) i Moskovskogo ordena Lenina meditsinskogo  
instituta.

(CARDIOVASCULAR SYSTEM, surg.

large vessels, exper. of large vessels, 2 per cent solution  
of novocain anesth. )

(PROCAINE, anesth. and analgesia

2 per cent solution in exper. surg. of large vessels)

BREDIKIS, Yu.I., SHUMAKOV, V.I.

Danger zones of the heart. [with summary in English]. Eksper.khir.  
1 no.1:47-53 Jan 1956 (MIRA 11:10)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii  
(zav. - prof. V.V. Kovanov) I Moskovskogo ordena Lenina meditsinskogo  
instituta imeni I.M. Sechenova.

(HEART, wounds and injuries

exper. determ. of danger zones (Rus))

(WOUNDS AND INJURIES, exper.

heart, determ. of danger zones. (Rus))

SHUMAKOV, V.I.

Experimental surgical correction of mitral insufficiency [with summary  
in English] Eksper.khir. 2 no.6:3-6 N-D.'57. (MIRA 11:2)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii (nav.  
prof. V.V.Kovanov) I Moskovskogo ordena Lenina meditsinskogo instituta  
imeni I.M.Sechenova.

(MITRAL VALVE, dis.

exper. insuff. in dogs, surg., pruse string technic (Rus))

SHUMAKOV, V. I., Candidate Med Sci (diss) -- "Surgical correction of insufficiency of the mitral valve (Experimental-anatomical investigation)". Moscow, 1959. 18 pp (First Moscow Order of Lenin Med Inst im I. M. Sechenov), 200 copies (KL, No 24, 1959, 153)

SHUMAKOV, V.I.

Method for creating experimental mitral insufficiency. Eksp.  
khir. 4 no.2:20-23 Mr-Apr '59. (MIRA 12:5)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii  
(zav. - prof. V.V.Kovanov) I Moskovskogo ordena Lenina meditsin-  
skogo instituta imeni I.M.Semashko.

(MITRAL VALVE, dis.

exper. insuff., method of prod. in dogs (Rus))

YEMEL'YASHENKOV, A.I.; SHUMAKOV, V.I.

Selection of effective surgical approach to the anterior and  
posterior surfaces of the left heart, Vest.khir. 84 no.1:  
32-36 Ja '60. (MIRA 13:10)  
(HEART--SURGERY)

SOLOV'YEV, G.M., starshiy nauchnyy sotrudnik; SHUMAKOV, V.I., kand.med.  
nauk; KHIL'KIN, A.M., aspirant

Method for longitudinal sternotomy in approaching the heart.  
Vest.khir. '86 no.3:38-43 Mr '61. (MIRA 14:3)

1. Iz gosptal'noy khirurgicheskoy kliniki (dir. - prof. B.V.  
Petrovskiy) i kafedry operativnoy khirurgii (zav. - prof. V.V.  
Kovanov) 1-go Moskovskogo ordena Lenina meditsinskogo instituta  
im. I.M. Sechenova.

(HEART—SURGERY)

(STERNUM—SURGERY)



SHUMAKOV, V. I.

Modification of the artificial blood circulation apparatus of  
the Crafford-Senning system. Grud. khir. no.2:89-92 '62.

(MIRA 15:4)

1. Iz laboratorii iskusstvennogo krovoobrashcheniya (nauchnyy  
rukovoditel' - prof. B. V. Petrovskiy, zav. doktor meditsinskikh  
nauk G. M. Solov'yev) Nauchno-issledovatel'skogo instituta  
eksperimental'noy khirurgicheskoy apparatury i instrumentov  
Ministerstva zdravookhraneniya SSSR na baze Gospital'noy khirurgi-  
cheskoy kliniki (zav. - prof. B. V. Petrovskiy) I Moskovskogo  
ordena Lenina meditsinskogo instituta imeni I. M. Sechenova.

(PERFUSION PUMP(HEART))

SHUMAKOV, V.I.

Use of atrioannuloplasty for the correction of mitral insufficiency in an experiment. Trudy 1-go MII 16.30-40'62.

(LINA 16:6)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii (zav. - chlen-korrespondent AMN SSSR prof. V.V.Kovanov) Per-  
vogo Moskovskogo ordena Lenina meditsinskogo instituta.  
(MITRAL VALVE—SURGERY)

SOLOV'YEV, G.M., prof.; SHUMAKOV, V.I., kand. med. nauk (Moskva)

Impressions from the scientific mission to the U.S.A. for  
exchange of experience in the field of cardiovascular sur-  
gery. Khirurgiia 39 no.5:135-142 My '63. (MIRA 17:1)

BUNYATYAN, A.A.; SOLOV'OV, G.H.; SHUMAKOV, V.I.; KROD, N.Ya.

Anesthetic characteristics and safety provisions in operations  
on an open heart with extracorporeal circulation. Trudy I-go  
MMI 33:199-204 1984. (MIRA 16:3)

PETROVSKIY, B.V.; SOLOV'YEV, G.M.; SHUMAKOV, V.I.; BUIYATYAN, A.A.;  
KHODAS, M.Ya.; SHABALKIN, B.V.; RYSHKIN, V.S.; PYATNITSKAYA, G.Kh.

Results of work with the apparatus of artificial blood circulation  
of the Craford-Senning system. Trudy 1-go MMI 33:9-14 '64.  
(MIRA 18:3)

SHUMAKOV, V.M.

Results of catamnestic examination of schizophrenics having  
committed socially dangerous actions. Sud.-med. ekspert. 8  
no.1:40-44 Ja-Mr '65. (MIRA 18:5)

1. Institut psikhiiatrii (dir. - prof. A.V.Snezhnevskiy) AMN SSSR  
i Tsentral'nyy institut sudebnoy psikhiiatrii imeni Serbskogo (dir. -  
dotsent G.V.Morozov), Moskva.

SHUMAKOV, V. S., Cand Med Sci (diss) -- "The problem of the mechanism of action of sodium salicylate in rheumatism". Khar'kov, 1960. 16 pp (Khar'kov State Med Inst), 200 copies (KL, No 14, 1960,139)

SHUMAKOV, V.S. Cand. Agricul. Sci.

Dissertation: "On the Properties of a Forest Floor in Pine Types of Forests." Soil Inst imeni V.V. Dokuchayev, Acad Sci USSR, 5 Feb 47.

SO: Vechernyaya Moskva, Feb, 1947 (Project #17836)



SHUMAKOV V S

CA

15

The causes that hinder nitrification in forest soils. V. S. Shumakov. *Pochvoedenie* (Pedology) 1948, 2:27-35. Ammonification is more active in the forest litter of the pine-huckleberry assocn. than in the pine-lime-grove assocn. The reverse is true for nitrification. It is much weaker in the conifer than in the mixed forest. The  $H_2O$ -sol. substances of the autumn leaf fall have a depressing effect on nitrification. J. S. Joffe

ASM-514 METALLURGICAL LITERATURE CLASSIFICATION

**CIA-RDP86-00513R001550210012-4"**

SHUMAKOV, V. S.

Afforestation

Aspects of oak plantings on chestnut and light chestnut type of soils. Les. khoz. no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

USSR/Forestry - Forest Cultures.

K.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15422

Author : V.S. Shumakov

Inst : -

Title : The Advantages of Fall Deep Tilling for Forest Cultures  
in the South East.  
(O preimushchestve osennoy plantazhnoy vapashki pochvy  
pod leskul'tury v usloviyakh yugo-vostoka).

Orig Pub : Lesn. kh-vo, 1957, No 7, 45-48

Abstract : No abstract.

Card 1/1

SHUMAKOV, V.S.; MIKHOVICH, A.I.

Soil salinization by deposition of salt dust from the  
atmosphere in the Elista region. Pochvovedenie no.7:  
112-113 '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lesovodstva  
i mekhanizatsii lesnogo khozyaystva, Pushkino.  
(Elista region--Alkali lands)

SHUMAKOV, V.S.

Biochemical activeness of dark grey forest-steppe soils under  
the canopy of various forest plantations. Pochvovedenie no.10:  
47-54 '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lesovodstva i  
mekhanizatsii lesnogo khozyaystva.  
(Forest soils)

CHERN, N.I., prof., sov. red.; KURAVKOVA, E.M., red.;  
DERYABIN, D.I., kand. sel'khoz. nauk, red.; ENELEZICOV,  
G.F., kand. sel'khoz. nauk, red.; IVANNIKOV, S.P., kand.  
sel'khoz. nauk, red.; IVANOV, G.G., red.; LARYUKHIN, G.A.,  
kand. tekhn. nauk, red.; LOSITSKIY, K.B., doktor sel'khoz.  
nauk, zam. otv. red.; MIRONOV, V.V., kand. sel'khoz. nauk,  
red.; RODIONOV, A.Ya., kand. sel'khoz. nauk, red.;  
TRUBNIKOV, M.M., kand. ekon. nauk, red.; CHEVEDAYEV, A.A.,  
kand. sel'khoz. nauk, red.; SHUMAKOV, V.S., kand. sel'khoz.  
nauk, red.; YURGENSON, F.B., doktor biol. nauk, red.; TROPIN,  
I.V., kand. sel'khoz. nauk, red.

[Studying the performance of new machinery in silvicultural  
work; scientific papers] Issledovanie rabochikh protsessov  
novykh mashin na lesokul'turnykh rabotakh; nauchnye trudy.  
Moskva, Izd-vo "Lesnaia promyshlennost'," 1964. 111 p.

(MIRA 17:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut  
lesovodstva i mekhanizatsii lesnogo khozyaystva.

PRESNETSOV, V.D.; PONOMAREV, V.D.; PANFILOV, P.F.; SHUMAKOV, V.V.

Treatment of reverberatory furnace dusts at the Karsakpay copper  
smelting plant. TSvet. met. 37 no.10:26-29 0 '64. (MIRA 18:7)

SHUMAKOV, Ye.M.

25648. SHUMAKOV, Ye.M. Pamyati S. A. Predtechenskogo. (Entomolog 1895-1941).  
Trudy Vsesoyuz. in-ta zashchity rasteniy vyp.2. 1949, s. 215-19.  
Bibliogr: « Spisk pechatnykh rabot S. A. Predtechenskogo » s.218-19

SO: Letopis' Zhurnal' Nykh Statey, Vol. 34, Moskva, 1949.



SHUMAKOV, Ye.M.; VINOGRADOVA, N.M.; YAKHIMOVICH, L.A.

Dynamics of the accumulation and consumption of fat reserves in  
the Eurygaster integriceps. Zool.zhur.33 no.1:87-101 Ja-F '54.  
(MLRA 7:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity  
rasteniy, Leningrad. (Eurygasters)

SHUMAKOV, Ye. M.

USSR/ Biology - Plant physiology

Card 1/1 Pub. 22 - 51/52

Authors : Shumakov, Ye. M., and Yakhimovich, L. A.

Title : Morphological and histological metamorphic characteristics of a cotton bug (cutworm moth) in connection with the appearance of diapause

Periodical : Dok. AN SSSR 101/4, 779-782, Apr 1, 1955

Abstract : The external changes (metamorphosis) of a cutworm moth cocoon were investigated to determine the histological and morphological changes during various stages of its germination and growth. Results obtained are listed. Six references: 4 Russian and Soviet, 1 English and 1 Italian (1911-1954). Drawing.

Institution : The V. I. Lenin All-Union Agricultural Acad., Inst. for the Protection of Plants

Presented by: Academician Ye. N. Pavlovskiy, December 25, 1954

SHUMAKOV, Ye.M.

Species of new Acrididae from Iran and Afghanistan. [with English summary in insert]. Zool. zhur. 35 no. 12: 1859-1862 D '56. (MLRA 10:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy. (Iran--Locusts) (Afghanistan--Locusts)

COUNTRY : USSR  
CATEGORY :

P-5

ABJ. JOUR. : RZBiol., No. 19, 1958, No. 87649

AUTHOR : Shumakov, Ye. M.

INST. :

TITLE :

The Principal Achievements of Soviet  
Agricultural Entomology (1917-1957)

ORIG. PUB. : Entomol. obozreniye, 1957, 36, No 4,  
802-828

ABSTRACT : Over these 40 years there have been published 15-20 thousand entomological contributions. (350-600 each year). The principal publications, primarily of the nature of compendia and reviews, in particular: on services of recording and forecasts, zonal distribution of pests, heavy infestation pests (locusts, *Euxoa segetum*, *Loxostege sticticalis*, *Eurygaster integriceps*, Colorado potato beetle), plant immunity, pest control methods (soil management, biological, chemical, by use of aircraft, aerosols), on quarantine service, pests of specific crops (grain crops, cotton, sugar beet, legumes, vegetables, fruit and berries, grapes, subtropical crops). An enumeration of the manuals,  
CARD: 1/2

SHUMAKOV, Ye.M., kand. sel'skokhozyaystvennykh nauk.

Problems of controlling shield bug *Eurygaster integriceps* in the  
U.S.S. R. Trudy VIZR no.9:3-18 '58. (MIRA 12:1)  
(Eurygasters)

SHUMAKOV, Ye.M., kand. sel'skokhozyaystvennykh nauk; VINOGRADOVA, N.M.,  
kand. sel'skokhozyaystvennykh nauk.

Ecology of the shield bug *Eurygaster integriceps*. Trudy VIZR no.9:  
19-69 '58. (MIRA 12:1)  
(Eurygasters)

SHUMAKOV, Ye.M., kand. sel'skokhozyaystvennykh nauk.

Phasia parasites of the shield bug *Eurygaster integriceps* Put.  
Trudy VIZR no.9:313-321 '58. (MIRA 12:1)  
(Eurygasters--Biological control)

SHTEYNBERG, D.M.; SHUMAKOV, Ye.M.

Tasks in the field of entomology viewed in the light of the  
decisions of the December Plenum of the Central Committee  
of the CPSU. Ent. oboz. 39 no.2:275-283 '60. (MIRA 13:9)  
(Entomological research)



SHUMAKOV, Ye. M.

Agricultural entomology at the Eleventh International Entomological  
Congress in Vienna. Ent.oboz. 40 no.2:477-481 '61.  
(MIRA 14:6)

(Agricultural pests—Congresses)

SHTEYNBERG, D.M., prof. (Leningrad); SHUMAKOV, Ye.M. (Leningrad)

Harvest protection from pests and diseases. Priroda 51  
no.10:64-68 0 '62. (MIRA 15:10)

1. Zoologicheskiiy institut AN SSSR.  
(Plants, Protection of)

SHUMAKOV, Yevgeniy Markovich; BRYANTSEVA, Irina Borisovna; REUTSKAYA,  
O.Ye., red.; BARANOVA, L.G., tekhn. red.

[Injurious and beneficial insects] Vrednye i poleznye nasekomye.  
Leningrad, Sel'khozizdat, 1962. 108 p. (MIRA 15:6)  
(Insects, Injurious and beneficial)

BOVIER, V.M., SHUMAKOV, Y.M.

Universal pneumohydraulic table. Mashinostroitel' no. 7:24  
31 '64. (MIRA 17:8)

TSYFLENKOV, Ye.P.; SHUMAKOV, Ye.M.

Results of the study of locusts in the U.S.S.R. Trudy VIZR  
no.17:290-310 '63.

Soviet literature on locusts not included in the bibliography  
of G.B. Bugdanov (1958). Ibid.:412-422 (MIRA 18:9)

SHUMAKOV, Ye. M.

"L'endemisme des locustides en Iran et en Afghanistan."

report submitted for 12th Intl Cong of Entomology, London, 8-16 Jul 64.

L 10576-66 EWT(m)/I/EWP(t)/EWP(b)/EWA(c) IJP(c) JD  
ACC NR: AP5025409 SOURCE CODE: UR/0181/65/007/010/3138/3139  
AUTHOR: Bakradze, R. V.; Kutsykovich, M. B.; Shumakov, Yu. I. 37  
ORG: All-Union Scientific Research Institute of Single Crystals, Kharkov B  
(Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov)  
TITLE: Coefficients of linear expansion in single crystals of sodium iodide 18 27 27  
SOURCE: Fizika tverdogo tela, v. 7, no. 10, 1965, 3138-3139  
TOPIC TAGS: single crystal, sodium compound, iodide, thermal expansion, thallium

ABSTRACT: The coefficient of linear expansion was measured in NaI single crystals (with a thallium content of  $\sim 2 \cdot 10^{-5}$ , 0.41 and 0.52 wt.%). The specimens were cylindrical rods 50 mm long and 3 mm in diameter. Dilatometric curves are given in the 20-240°C range for heating and cooling at a rate of 200°/hr. The experiments were done on specimens containing water of crystallization, as well as on specimens preheated to 200°C. Anomalies were observed in the variation in length of the specimens containing water of crystallization at 70-80 and at 150-160°C. These irregularities showed up as a reduction in the length of the specimen during heating.

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Card 2/2

ACC NR: AR6029508

SOURCE CODE: UR/0137/66/000/005/I054/I054

AUTHOR: Shumakov, Yu. I.; Tananko, I. A.

TITLE: Tempering cycle of 2Kh13L steel alloyed with 1.0% nickel ✓

SOURCE: Ref. zh. Metallurgiya, Abs. 6I369

REF SOURCE: Vestn. Khar'kovsk. politekhn. in-ta, no. 5(53), 1965, 3-5

TOPIC TAGS: Steel, tempering, mechanical property / 2Kh13L steel

TRANSLATION: A study was made of cast 2Kh13L steel, containing (wt %): C--0.20-0.23, Si--0.31-0.50, Mn--0.41-0.61, S--0.023-0.030, P--0.020-0.024, Cr--13.44-14.20, Ni--0.82-1.0. Tempering was done directly after casting, as well as after preliminary normalization at 1050°C. Tempering of the steel at temperatures below 700-720°C for 4-8 hr did not produce the necessary hardness (about 22  $R_o$ ) and  $\alpha_k$  (5-6 kg/cm<sup>2</sup>). The best combination of mechanical properties was obtained by a two-step temper: 730°C for 4 hr, after which the furnace temperature was reduced to 650°C and the steel was held for 1 hr; afterward the samples were air cooled. V. Olenicheva.

SUB CODE: 11,13

UDC: 669.15.018.8

Card 1/1



ACC NR: AR6035112 (N) SOURCE CODE: UR/0137/66/000/008/I059/I059

AUTHOR: Seleznev, A. G.; Gavranek, V. V.; Shumakov, Yu. I.

TITLE: Hydroabrasive resistance of transition grade 10Kh15N4G4D2L stainless steel

SOURCE: Ref. zh. Metallurgiya, Abs. 8I402

REF SOURCE: Sb. Kavitats. i gidroabrazivn. stoykost' met. v gidroturbinakh. M., Mashinostroyeniye, 1965, 111-114

TOPIC TAGS: steel, stainless steel, high temperature steel, martensite steel, abrasive, abrasion resistant steel/10Kh15N4G4D2L stainless steel

ABSTRACT: The steel under investigation was of the following composition (in %): C, 0.07; Cr, 15; Ni, 4.2; Mn, 4; Cu, 2; W, 0.3. In cast state  $H_B = 163$  and there is no ferrite in the structure. The machining conditions rate for 10Kh15N4G4D2L steel were established: normalizing after casting is made at 900—950°C (for producing the maximum amount of martensite); high temperature tempering, at 700°C with subsequent aging at 450°C for 1.5—2 hours (  $\sigma_t$  , 96.0

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kg/mm<sup>2</sup>;  $\sigma_s$ , 59.4 kg/mm<sup>2</sup>;  $\delta$ , 26%;  $\psi$ , 45%;  $a_k$ , 9.3 kgm/cm<sup>2</sup>); the other variant calls for sub-zero treatment after normalizing and subsequent aging at 450C for 2 hours ( $\sigma_s$ , 107 kg/mm<sup>2</sup>;  $\sigma_s$ , 82.1 kg/mm<sup>2</sup>;  $\delta$ , 12.4%;  $\psi$ , 29.2%;  $a_k$  9.1 kgm/cm<sup>2</sup>). The hydroabrasive stability of the steel is higher after sub-zero treatment than with high-temperature tempering. Good wear resistant steel can be produced even at 340 H<sub>B</sub> exceeding the wear resistance of 1Kh18Kh9T and 1Kh18N3G3D2L steels. V. Olenicheva. [Translation of abstract] [AM]

SUB CODE: 13/

Card 2/2

ACC NR: AR6035035

SOURCE CODE: UR/0277/66/000/008/0008/0008

AUTHOR: Volobuyev, I. V.; Shumakov, Yu. I.

TITLE: Effect of niobium on the susceptibility of crack formation in 2Kh13L steel

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruksii i raschet detaley mashin. Gidroprivod, Abs. 8.48.62

REF SOURCE: Vestn. Khar'kovsk. politekhn. in-ta, no. 5(53), 1965, 50-55

TOPIC TAGS: niobium addition, crack formation

ABSTRACT: The effect of Nb (0.08—0.13%) additions on the susceptibility of 2Kh13L steel to crack formation has been investigated with the use of multiple quenching. Quenching at 1050C ensures the best combination of mechanical and corrosion-resistance properties. The addition of 0.08—0.12% Nb to the steel pulverizes the grain, thereby decreasing the susceptibility to crack formation. art. has: 7 figures. Bibliography of 5 titles. [Translation of abstract] Orig. [NT]

SUB CODE: 11/

Card 1/1

UDC: 669.14.018:539.4:669.293

ACC NR: AR6029507

SOURCE CODE: UR/0137/66/000/006/I054/I054

AUTHOR: Volobuyev, I. V.; Shumakov, Yu. I.

TITLE: Effect of niobium on the tendency to crack formation in 2Kh13L steel

SOURCE: Ref. zh. Metallurgiya, Abs. 6I367

REF SOURCE: Vestn. Khar'kovsk. politekhn. in-ta, no. 5(53), 1965, 50-55

TOPIC TAGS: niobium, crack propagation, corrosion resistant steel / 2Kh13L steel

TRANSLATION: A multiple, repeated quenching method was used in the investigation. The composition of the steels investigated was (wt %): C--0.17-0.37, Cr--12.50-14.36, Nb--0.07-0.03, Mn--0.30-0.35, Ni--0.80-0.86, S--0.020-0.022, and P--0.022-0.023. After quenching, the samples were heated to temperatures of 900-1200°C for 20 min. Before quenching, the samples were subjected to single or double annealing at 700°C. The greatest tendency to crack formation was found in steels subjected to single annealing after quenching from 1050-1150°C, while the lowest was for those quenched from 950°C. A quench temperature of 1050°C provided the best combination of mechanical and anti-corrosive properties; however, this temperature was least satisfactory in regard to crack formation. The cracks propagated principally along the grain boundaries of re-crystallized austenite. In samples exposed to a few cycles of reversed quenching, there was a thin network of excess  $\sigma$ -phase along the grain boundaries. In quantities

UDC: 669.15.018.8

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ACC NR: AR6029507

of 0.08-0.12%, Nb decreased the tendency of 2Kh13L steel toward crack formation.  
V. Olenicheva.

SUB CODE: 11,13

Card 2/2

SHUMAKOV, Yu.S.

Accounting for merchandise in drugstores. Farmatsev. zhur. 15 no.1:  
67-69 '60. (MIRA 14:5)

1. Zaveduyushchiy aptekoy No.18, g. Kiyev.  
(~~DRUGSTORES~~—ACCOUNTING)

SHUMAKOV, Yu.S.

Equipment enabling accelerated preparation of liquid drugs.  
Farmatsev. zhur. 16 no.4:61-64 '61. (MIRA 17:6)

1. Upravlyayushchiy aptekoy No.18, Kiyev.

SHUMAKOV, Yu.S.

Display windows in drugstores. Farmatsev. zhur. 19 no.4:67-69 '64.

(MIRA 17:11)

1. Tsentral'naya nauchno-issledovatel'skaya aptechnaya laboratoriya  
Glavnogo aptechnogo upravleniya Ministerstva zdravookhraneniya UkrSSR.



GHUMAROV, T.N.S.

New developments in the pharmaceutical practice. Farmatsev.  
zhur. 17 no.6:76-78 '62. (MIRA 17:6)

1. Tsentral'naya nauchno-issledovatel'skaya aptechnaya  
laboratoriya Glavnogo aptechnogo upravleniya Ministerstva  
zdravookhraneniya UkrSS.

SHUMAKOV, Yu.S.

Notes on new efficient work methods. Farmatsev, zhurn. 17 no.5;  
78-81 '62. (MIRA 17:9)

1. Tsentral'naya nauchno-issledovatel'skaya aptechnaya laboratoriya  
Glavnogo aptechnogo upravleniya Ministerstva zdoravookhraneniya  
UkrSSR.

SHUMAKOV, Yu.S.

Device for blending ointments and liquids. Farmatsev. zhur. 16 no.1:  
80-82 '63. (MIRA 17:10)

1. Tsentral'naya nauchno-issledovatel'skaya aptechnaya laboratoriya  
Glavnogo aptechnogo upravleniya Ministerstva zdravookhraneniya UkrSSR.

SHUMAKOVA, A., kand. sel'skokhoz. nauk

Prospects for the use of new fungicides. Zashch. rast. ot vred.  
i bol. 10 no.3:16-17 '65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity  
rasteniy.